



2020 Census Local Update of Census Addresses Operation (LUCA)

Promotion

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Agenda

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The Decennial Census

The purpose is to **conduct** a census of population and housing and **disseminate** results to the President, the States and the American People

- Uses of Census data:
 - **Apportioning** representation among states as mandated by Article 1, Section 2 of the US Constitution
 - **Drawing** congressional and state legislative districts, school districts and voting precincts
 - **Enforcing** voting rights and civil rights legislation
 - **Distributing** federal dollars
 - **Informing** planning decisions of federal, tribal, state and local government and organizational decisions (e.g., where to locate, size of market, etc.) of businesses and non-profits

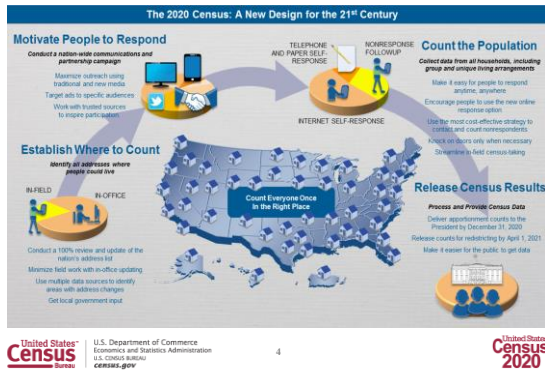
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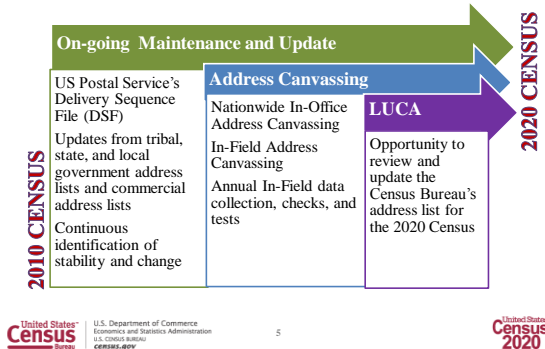
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2020 Census Design



Address List Maintenance 2010 - 2020



Geographic Support System (GSS) Program

- Integrated program of improved address coverage, continual spatial and feature updates, and enhanced quality assessment and measurement
- Supports and maintains the geographic and cartographic infrastructure necessary for the Census Bureau's data collection, processing, tabulation, and dissemination programs for the United States and Puerto Rico
- Provides for continual updates throughout the decade to support current surveys and the 2020 Census

LUCA Background

- Authorized by the Census Address List Improvement Act of 1994 (Public Law 103-430)
- Implemented in the support of the 2000 Census and refined to support the 2010 Census
- Provides a voluntary opportunity for designated representatives of tribal, state and local governments to review and comment on the addresses used to conduct the decennial census

Confidentiality and Security

Information provided to/from LUCA is covered under Title 13 of the United States Code which:

- Requires the Census Bureau to ensure confidential treatment of census-related information, including individual addresses and map structure points
- Requires all liaisons, reviewers, and anyone with access to Title 13 materials abide by Confidentiality and Security Guidelines
- Requires the Census Bureau maintain the confidentiality of all information it collects

What's New for 2020 LUCA

- Streamlined participation – Full Address List Review
- Standard software formats for the digital address list
- Ungeocoded address records for state and county participants
- Requires residential multi-unit structure identifiers (e.g., Apt 1, Unit A2, #3001, etc.)
- Includes residential structure coordinates, if available
- Allows participants to submit residential structure coordinates, if available
- Allows participants to submit non-city style addresses with corresponding map spot

Who can participate in LUCA

- Federally recognized tribes with a reservation and/or off-reservation trust land
- States
- Counties
- Incorporated places
 - Cities, towns, boroughs, or villages
- Townships (Minor Civil Divisions)

Preparation – Early Tools (2020 Census LUCA Address Block Count files)

	A	B	C	D	E	F	G
1	State	County	Tract	BLOCK	BLOCK_GEOID	Total Residential	Total Group Quarters
2	21	051	9501.00	1000	210519501001000	0	0
3	21	051	9501.00	1001	210519501001001	1	0
4	21	051	9501.00	1002	210519501001002	0	0
5	21	051	9501.00	1003	210519501001003	7	0
6	21	051	9501.00	1004	210519501001004	0	0
7	21	051	9501.00	1005	210519501001005	0	0
8	21	051	9501.00	1006	210519501001006	0	0
9	21	051	9501.00	1007	210519501001007	0	0
10	21	051	9501.00	1008	210519501001008	2	0
11	21	051	9501.00	1009	210519501001009	28	0
12	21	051	9501.00	1010	210519501001010	0	0
13	21	051	9501.00	1011	210519501001011	37	0

Preparation – Early Tools (Census Geocoder)

- Takes individual addresses or file of addresses and obtains approximate coordinates and census geography
- Geocoder updates include:
 - Increasing the maximum number of records for batch processing from 1,000 to 10,000
 - Providing larger governments another means to submit addresses to be geocoded

Preparation – Participation Methods

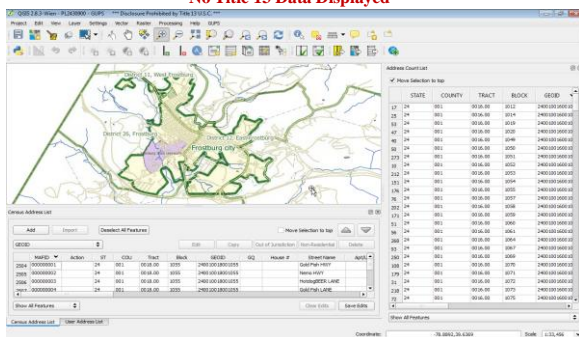
- Geographic Update Partnership Software (GUPS)
- Paper Format – Address List and Maps
- Digital Format – Address List and Maps

GUPS – Participation Method

- Customized Geographic Information System (GIS) software for participation in 2020 LUCA
- Pre-packaged to include all components
- Designed for participants with no GIS experience
- Allows for simple to complicated reviews and edits
- Programmed with a review tool to validate LUCA edits
- No internet connection required

GUPS screen example (Main screen)

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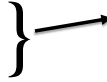
Address List Structure

LUCA 2010 – 26 Fields

Entity ID
Line #
MAFID
Action
State
County
Tract
Block
GO Flag
House Number
Street Name Prefix Qualifier
Street Name Prefix Direction
Street Name Prefix Type
Street Name
Street Name Suffix Type
Street Name Suffix Direction
Street Name Suffix Qualifier
Location Description or GO Name
Apartment/Unit Number
ZIP Code
Non-city style Mailing Address
Non-city style ZIP Code
Structure Point
Latitude
Longitude
City-Style Flag

LUCA 2020 – 24 Fields

Line #
MAFID
Action
Entity ID
State
County
Tract
Block
GEO ID
GQ Flag
House Number
Street Name
Apartment/Unit #
ZIP Code
GQ Name
Facility Name
Location Description
Non-city style Mailing Address
Non-city style ZIP Code
Mapspot ID
Address Use
Latitude
Longitude
City-Style Flag



Paper - Address List

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Paper – Address List Add Page

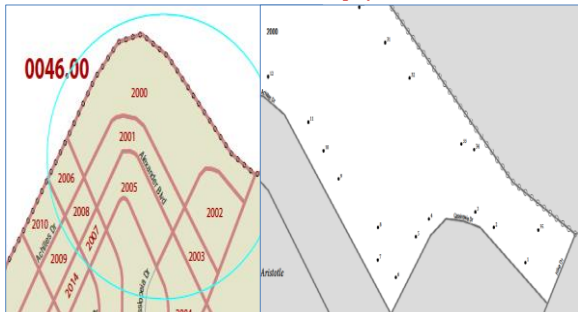
U.S. DEPARTMENT OF COMMERCE U.S. BUREAU OF ECONOMIC ANALYSIS OFFICE OF THE ASSISTANT SECRETARY FOR INTERNATIONAL ECONOMIC AFFAIRS	ADDRESS LIST ADD PAGE 2020 CENSUS LOCAL UPDATE OF CENSUS ADDRESSES OPERATION (LUCA)	PAGE _____ OF _____ PAGES Name of Firm _____ (Print Name) Date Completed _____ (MM/DD/YYYY)		
Add Page For: _____ (Entity Name)				
1 U.S. DEPARTMENT OF COMMERCE U.S. BUREAU OF ECONOMIC ANALYSIS OFFICE OF THE ASSISTANT SECRETARY FOR INTERNATIONAL ECONOMIC AFFAIRS	1 Census Geographic Location of Address	2 Business Identification	3 Residential Address	4 Other Information
(EAC) Economic Activity Code	(DNC) District and Census Number	(EAC) Economic Activity Code	(EAC) Economic Activity Code	(EAC) Economic Activity Code
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Preparation – Map Formats

- Paper
 - Available to all governments
 - Two types of paper map materials:
 - Large format (42" x 36") maps
 - DVD of Adobe small format (8.5" x 14") census block maps
- Digital
 - Available to all governments
 - TIGER partnership shapefiles (LUCA specific)
 - Utilize GIS software

Paper – Large & Small Format Maps

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Preparation – Next Steps (Participant)

- **Prepare** (now!)
- **Register** to participate (July 2017)
- **Attend** a training workshop (Fall/Winter 2017)
 - In-person workshops
 - Self-training aids and Webinars available online
- **Conduct** your LUCA review (Feb-April 2018)
 - **120** calendar days upon receipt of materials to complete review

Preparation - 2020 LUCA Schedule

Timeframe	Activity
January 2017 ✓	Advance Notice mailing sent to Highest Elected Officials (HEOs), Tribal Chairs (TCs), Governors and other potential 2020 LUCA contacts
March 2017 ✓	2020 LUCA Promotional presentations begin
July 2017	2020 LUCA invitation and registrations materials mailed to HEOs, TCs and Governors
October 2017	2020 LUCA Training workshops begin
December 15, 2017	**Deadline for 2020 LUCA Registration**
February - April 2018	2020 LUCA materials ship. Participants begin review and update of the Census Bureau's address list
February - September 2018	Census Bureau begins processing 2020 LUCA submissions
August - September 2019	Census Bureau delivers 2020 LUCA feedback
April 1, 2020	***CENSUS DAY***

Questions about 2020 LUCA?

Visit the 2020 LUCA website:

<https://www.census.gov/geo/partnerships/luca.html>

Contact us:

- Geographic Programs Support Desk toll-free telephone number: 1-844-344-0169
- Email: GEO.2020.LUCA@census.gov

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More information on the 2020 Census Memorandum Series:
<https://www.census.gov/programs-surveys/decennial-census/2020-census/planning-management/memo-series.html>



twitter.com/uscensusbureau



youtube.com/user/uscensusbureau



More information on the 2020 Census:
<https://www.census.gov/2020census>



instagram.com/uscensusbureau



More information on the American Community Survey:
<https://www.census.gov/programs-surveys/acs/>



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